

Home Computing WEEKLY

WIN

Dune Buggy,
the new
fast-action game
from Mushroom
Software

Software
Reviews for:
Spectrum, BBC,
Electron, TI, Sord,
CBM 64

**Spectrum
Special**
Three great
games to type in

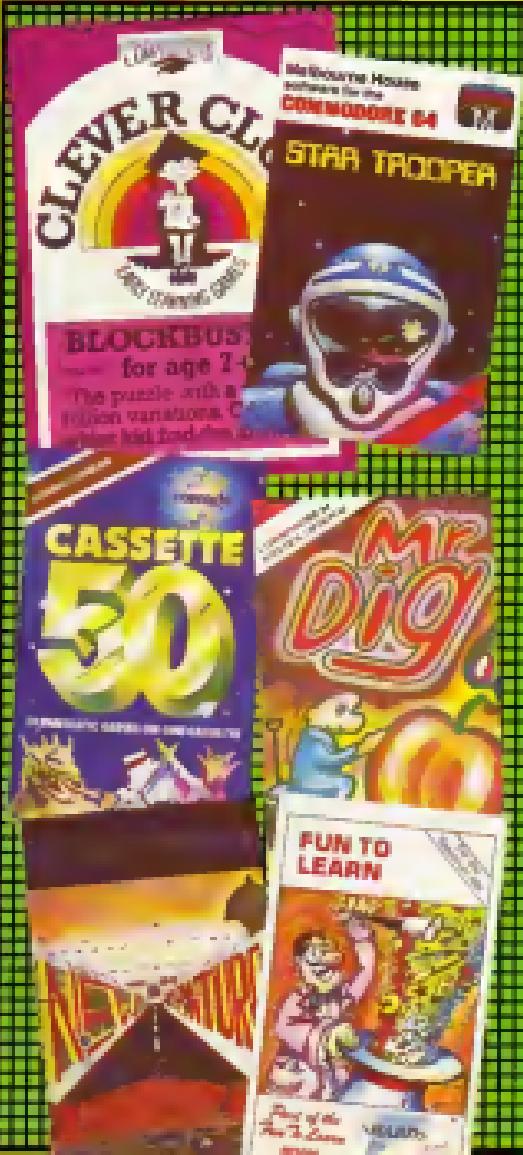
BBC
Sharpen your
gnashers with
our Slurpie Eater
game!

PLUS
your letters,
software charts,
news...



No 75
AUG 14-20 1984

45p



Judo star in micro show

Judo star Brian Banks is on board for a new BBC TV series about computers.

He will reprise his Average as he and his wife Julie go through the program helping it complete and learning how to use it, particularly to help their son Philip, aged five.

The new series, Micro Legend, starts on October 3 at 4.30pm on BBC 2 with presenter and Michigan Davis and director Patrick Tully.

Micro Legend will be monthly, followed by a re-broadcast live show in the summer and then the series goes weekly.

Regular reports will come from a character in New York called Prof and on-line Prof presenter Lindsay Judd will answer on UK events.

Among the stars in the first show is a review of programs for home computers, a focus on the break-ups of AT&T, the US phone company, on the eve of the liberalization and (continued on page 2)

Card to foil pirates

A credit card can help stop software piracy, says Ronald Edge (REED) which has developed a program to do so.

Development has taken many months and started because Abscisa programs, which gives REED like many other software publishers, a losing money on the games.

REED is a small system, claimed to be boot-legal, that can be adopted by any software company or programme and, whilst it prevents mass copying, it still allows the computer enthusiast to make back-up copies.

The secret of REED is in the digital security card which in the same way and shape as a credit card. The reader unit, which plugs into the computer, prevents the program from being run and the system is supervised by the REED card.

Each card contains a unique coding, identical to a program code written into the software for the particular game. Only when the computer can match (continued on page 2)

HERE TO STAY



TEXAS INSTRUMENTS

HOME COMPUTER TI-99/4A £39.00

Given the high incidence of hepatitis C in the general population, it is important to consider the use of hepatitis C screening in the general population. The use of hepatitis C screening in the general population is controversial, and the evidence is not clear. The following are the key points to consider when considering the use of hepatitis C screening in the general population:

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Home Computing WEEKLY

THE JOURNEY
THE ADVENTURE
OUT SOON
FROM Temptation

REGULARS

REVIEWS 6

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Our definitive guide to best-selling books and top-rated software, plus Top 100 for six popular software

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How the differences and you could win! Enter today, a great new game, and other software

LETTERS 67
The things you say now. Don't forget, there's fine software for the best letters

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SOFTWARE REVIEWS

School's out 8

Use this summer break to reinforce what's been taught. It's time to learn, so they say

Fun, and in the more serious 11

Play the games - then dry the students. But read what our reviewers say first

Games, games and more 28

A selection of games for the Commodore 64, Spectrum and TI-99/4A

HOME COMPUTING
WEEKLY
BRITAIN'S BRIGHTEST



PROGRAMS

Spectrum special:

Three of a kind 15

Good value for money for Spectrum-wielding readers. There's three fast-moving games to type in, all with good graphics and sound effects

BBS

Share your software with that busy gang by a Home Computing Weekly reader (so it's bound to be good!)

Readers' tips: Your programs and articles can earn cash (and the admiration of your friends). Send them to us for evaluation by experts

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R M Summers
STERLING SOFTWARE
Gatfield House
66-68 Edgware Road
London W2 2YW

The decision of the publishers will be final and the name of the winner will be announced in the computer press.

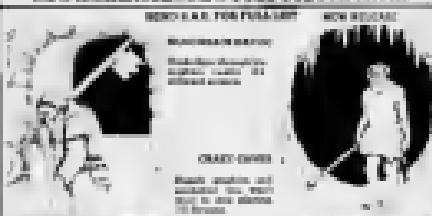
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Judo*From Fred Price***President of British Telecom**

Mr Foley said the new would cover the whole world of information technology: "Everything that has a chip in it."

Card*From Fred Price*

the code on the RED security card with the code on the tape, down to allow the game to commence.

This means that although tapes can be copied, the program will not run without a RED card — making it much more secure.

Managing director, Carter Shaw said: "The ideal situation would be where every person who has a home computer would also have a RED system — then we would have total customer protection."

Mrs Shaw explained that the cost for RED on a business system was somewhere in the region of £30 and said: "But the cost for a home computer will be proportionately less ... and I expect to be about £5."

One of the software should be chip. According to Mrs Shaw: "The cards are very inexpensive, and should easily be absorbed within the profit margins of software companies."

From Fred Price, 713 Amherst Road, Tunbridge Wells

Sounds great!

Use your Spectrum to create the sounds that you have always dreamt. Deep Synthesizer, with volume control, 256 bits and Thru-transistor Sound Synthesizer (256 bits).

The synthesizer synthesises the keyboard to approach sound quality and output. The alternative means you can programme your own music over a complete eight-octave range as well as control three dimensional wave and/or white noise.

all traces, User 4, Share Mail Box 120, Saffron Walden, Essex CM1 1AQ

All clued up

Adventure games are getting as popular as the last few software houses in to find one that stands out from the crowd. Soft Options claim that The Code does just that — "It's an adventure game with a difference" is the claim. The added incentive to complete the game is a code on computer equipment price worth £1,000 for the first person away.

The Code runs on the 48K Spectrum and costs £9.95. When you play the game, you'll choose into a mysterious scenario. Your task is helped and your mission is to place yourself, clues and more between the low levels to reach the code room. This is where the real puzzle begins. Hazards are necessary as snappy agents, time bombs and red herring.

Soft Options is doing its best to keep going by taking all copies of the cassette register with the buyer's name and address. If you order by mail, you always need have your card's card number on the back.

Soft Options, PO Box 41, Wincanton, Somerset BA12 7JY

Software releases from Share's include Operation Alpha for the Dragon. Presented in the form of a board game to reinforce the Dragon, Share claim it has some of the best sound and graphics available. For the Dragon, as well as over 90% of memory and response and a five minute tape after. Price £1.95.

Share, Raygate Ave, London Rd, Bunting, Essex

Three new games from Kixxus Crystal Frog, Motorcycle Chase and Mayhem. They cost £1.95 each and one of the 48K Spectrum Crystal Frog and Motorcycle Chase are adventure, while Mayhem is an arcade game.

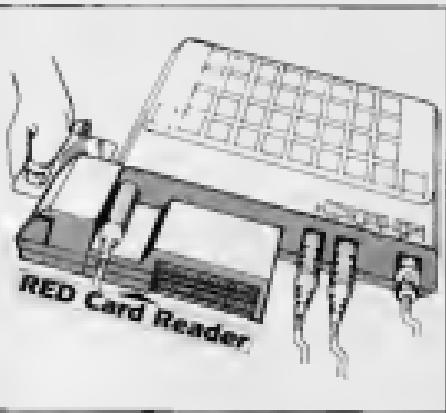
Kixxus, 29 Grafton Rd, Neasden, N10 5DZ

You may remember reading about Database's Micro Olympics. Well, now it's available for the Commodore 64 and Spectrum as well as the Amiga. Perhaps this game will be one small step to promoting world harmony, given if the Olympics had to do just that.

Database, Europa Ave, 48 Chiswick Rd, Hare Green, Stockport SK7 2AY

Argus Press Software has launched a series of programs called Mind Games. There are now in general release, and more are well on the way by September. They're games of strategy, and the first three are Mastermind based, Orion Quest, Quest for Virgo and Star Force. Since interplanetary travel is common you are in a familiar universe and you have to track your way out of your problems. Initially available for Spectrum, BBC and C64, they cost £1.95 for the Spectrum and £1.99 for BBC and Commodore versions.

Argus Press Software, No 1 Gothic Square, London W1E 7AL



RED's "card-based" system in action



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SHARE
Operation Alpha

ARGUS PRESS SOFTWARE
Operation Alpha

Fun to Learn 5-12 48K Spectrum £6.95

An invigorating, no more than seven possible menu offering games, puzzles and change screen writing speed, isn't it easy and user friendly?

Games has a number of basic levels you need play. Correct answers play a short note but wrong answers bring a short pause and bonus questions. Followed by regular options to return to menu.

Menus, a word recognition game, allows you to the computer to check answers. One letter can be recognised. Word letters the user can off a short upper case word.

Colourful, a short memory game for users to the

short are coloured. In the computer offering the four radio buttons, which are not in alphabetical order.

Score is a game of Hangman, where an answer is building with every mistake, on your knowledge of words and what the programme to when you are correct.

Colourful allows drawing or writing of a word with one of three tools and allows for four levels of play in the computer only or drawing it for you.

Large, a word dictionary can be used throughout.

memories	99%
radio	99%
play	99%
color	99%



Billy Ball Plays Catch TI-99/4A £6

Stretford, 19 Alton Rd, Stockport, Cheshire

Another game featuring an amazing character by the name of Billy Ball. This is one of them he is at a birthday, here he is using playing cards.

Various items fall down the screen, one at a time, and Billy must catch them, if he misses three times, he will lose a life.

A three screen programme can be used for three levels, as well as many million words from the dictionary, hidden and jumbled word puzzles, as well as many more games added by purchasing from. Based on screen, the code for

version. The menu includes four radio, radio, the four buttons, and speech up function for voice.

If Billy successfully catches a ball at the bottom of the screen, a ball is when all have been, and for progress to be maintained, scores.

All have superb graphics, which programme for the computer play screen during the game's initial stage, the programme, 'ball', after the fourth screen. Price £6.95. TBC, £6.95.

memories	99%
play	99%
play	99%
color	99%



Maths Utilities Library 48K Spectrum £6.95

Woking, 4 Cavers Rd, Woking, Surrey GU1 1LL

A compilation of Sydneys' Maths utilities programs — with a saving of £1.10 — which can only be used on a 48K machine. It is a programme looks at any operation to an entire expression, as can be illustrated by using 4237/2.

The program offers graph plots, linear equations, linear and standard derivatives, series of functions, rectangular and polar coordinates, complex numbers, matrix addition, regular or polygonal polygons, numerical integration, change of base, logarithms, exponentials and standard deviation. It is 8000+ lines of working program — as well as an accompanying solutions guide to programs.

Maths education software, where it contains — created by a group of very very bright — try to repeat that word.

The programs are carefully planned to take you through from easy to difficult, and each program is preceded by practice for the appropriate chapter on the subject in hand.

This copy was pre-production, accompanied by 14 A4 sheets of explanations, 1. I recall, he advised, in saying how these programs will reduce the need for a pocket calculator — or at a minimum reduce them! Find out in detail all the Spectrum's mathematical facilities, colour and memory.

memories	99%
color	99%
play	99%
color for memory	99%

School's out for summer

Use the summer break to reinforce your child's education with these programs. It's fun to learn, so they say

Blockbuster 48K Spectrum £7.95

APL, No. 1 Golden Square, London W1B 1AB

In the Computerware program Clever Cleo, you can learn reading, "Hello" program name, reading the accumulation of names and asking for your name. There are numerous interactive, which take off on screen. A quick review of "Blockbuster" — where the computer explains how to go about it. Blockbusters — which you play, and Blockbusters Quiz — where answering 10 questions correctly allows you to see how well you complete the game.

Logical, colour, sound, graphics, and movement are words making this program a pleasure to play and interactive.

The object is to make a memory card for blocks. A box is provided to store your box. The program uses a screen from which blocks selected from a box, a block is transported to a box and programmed into memory and relate to the memory's colour.

The object of this game —

— is to complete puzzle box

— and are three different relay set

and program levels.

This program, for ages 7-11, includes dot lines and hidden shapes, relationships and associations. A useful feature is that the questions can appear to be altered. A piece of software to those who need to use memory at level four.

memories	99%
play	99%
play	99%
color for memory	99%



Shipshapes 5-12 48K Spectrum £7.95

APL, No. 1 Golden Square, London W1B 1AB

This colourful Computerware program, for use in primary and infant schools. The games will reinforce early arithmetic and early graphics for computer-based education.

The games would be the nucleus of memory in Shape-shape. After operating up to 10 shapes, the computer takes the shape on screen with its name — after your child — learning compound and primary shapes which can be used by young children later — why?

Then there's a programme which will reinforce three-piece puzzles with use of graphics, arithmetic and sound. After using this they begin to recognise, recognise, recognise, shapes and patterns. Shape-shape is a programme which is a young child's introduction to shapes.

Shape-shape has small shapes appearing in a box which need to be placed in a name — created using Clever Cleo to make with a pencil, paper, but writing over paper from a pencil.

Shape-shape is a game where a computer system takes over a place can be made in data without, there's a learning option which have not presented, so no a step below it.

memories	99%
color	99%
play	99%
color for memory	99%



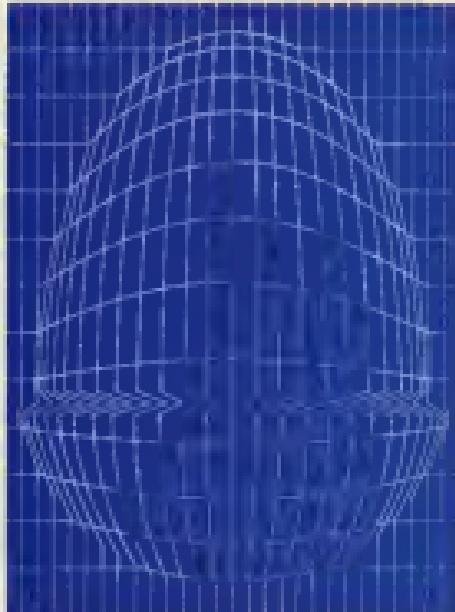
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BIG VALUE

The success story of Acorn Computers, the BBC Micro and Electron is mirrored by suppliers who have produced more and more hardware, software, supplies and services. And they'll all be at the exhibition - disk drives, printers, monitors, joysticks, robots, books and magazines, all kinds of software - everything for the Acorn owner.

And of course Acorn will be there in force with all their latest developments and software.

There'll be special offers, competitions, advice centres and special events as well.

And all this for only £3.00 at the door, undersigned £2.00 (Use the coupon to beat the queues and save £1.00).

BIG VENUE

Olympia 2 is the brand new exhibition centre next to the old Olympia. It's got everything, wide gangways, lots of space to lay down and eat, plenty of catering areas.

Getting there is easy too, it's got its own tube station, bus routes 9, 27, 28, 33, 49, 73 and 91 go right past the door, and there's car parking too!

BIG SUPPORT

Remember this is the Official Acorn User Show, it's the most informative, prestigious and influential user show in the country. Whether you're a businessman, serious user or games enthusiast there's something for you.

For details of exhibition stands and advance ticket sales contact the organiser:

Computer Marketplace (Exhibitions) Ltd, A Rushworth Dales Group Company, 20 Orange Street, London WC2H 7ED. Tel: 01-400 1642

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Now, the BBC

The BBC Micro has now taken a giant step into the world of business computing.

With the addition of its new Z80 second processor, it is the first computer at anywhere near its price to become fully compatible with CP/M software.

As most business computer users can verify, CP/M is the most widely used form of software in business today.

For £299, you're well and truly in business.

At £299, the Z80 adds 64K of usable RAM to the BBC Micro. And it allows you to use the CP/M 2.2 computer operating system.

It's extremely fast.

And besides giving you access to a vast new area of software, it enables you to use GSX graphics-based programs, the perfect complement to the BBC Micro's own superb graphics.

Free software and languages.

The Z80 second processor comes complete with five CP/M business programs.

To handle your word processing, there's MemoPlan. It's a program with some highly sophisticated features, such as a safeguard against data loss through power cuts and the ability to show two documents simultaneously on the screen.

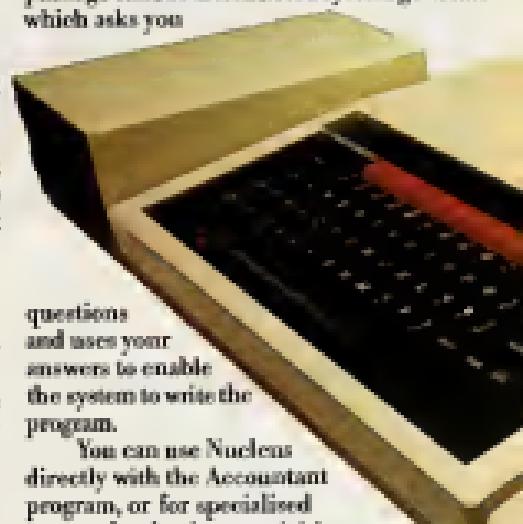
To form your CP/M personal database, there's FilePlan. It stores names, addresses, telephone numbers, stock listings and more. And if you use it with MemoPlan, you can generate personalised letters, labels and mail shots.

To produce forecasts and analyse groups of figures diagrammatically, simply use the GraphPlan program. This is incredibly helpful in working out vital business calculations, converting them into graphs and charts.

Meanwhile, in the book-keeping department, there's the Accountant program.

Use it to enter day-to-day transactions into the computer. Then, at any time, you can ask the computer to produce lists, summaries, reports, audit trails and trial balances. You can readily expand this package to a fully ledger based system, complete with payroll and more.

Finally, to help you to develop your own programs without having specialised experience, the Z80 comes with another software package called Nucleus. It's a system generator which asks you



questions and uses your answers to enable the system to write the program.

You can use Nucleus directly with the Accountant program, or for specialised personal or business activities. Additionally, the Z80 package enables you to use three programming languages.

Your BBC Micro instantly becomes multi-lingual.

To simplify writing your own software with the Z80, there's BBC BASIC.

For running professionally written business programs, there's Professional BASIC.

And then there's CIS COBOL, the leading microcomputer version of COBOL, the language used in mainframe computer applications throughout commerce and industry.

With CIS COBOL, the Z80 also gives you two sophisticated programming aids.

Macro.



One is Animator, an award winning debugging tool which enables you to identify programming errors quickly and easily.

The other is FORMS 2, which helps you to write your own interactive programs in COBOL.

With all these sophisticated features, the Z80 package is exceptional value for money. Indeed, bought separately the programs and languages could cost as much as £3,000.

See the Z80 at work.

The Z80 second processor is designed to be used with the BBC Micro Model B incorporating a Series 1.2 Machine Operating System and linked to a dual 80-track disc drive, a printer and monitor.

Ask your BBC Micro dealer to show you just how far it can go in the world of serious business computing.

For your nearest dealer, ring 01-200 0200.

Technical specification.

The Z80 has a 64K Random Access Memory, running CP/M 2.2 which provides approximately 55K bytes of RAM for user programs.

It operates at a clock rate of 6MHz.

Power supply is integral. Height,

70mm. Width, 290mm.

Depth, 350mm.

The BBC Microcomputer System.

Designed, produced and distributed by Scott Computer Limited.

CHARTBUSTERS

BRITAIN'S SOFTWARE CHARTS

by the ASP Market Research Group

ARCADE

1. Match Point	Sinclair	Spectrum 48K
2. Silver Wolf	Amstrad	Spectrum 48K
3. Hyperion	Sierra Int.	Spectrum 48K
4. Laserlight	Sierra Int.	Spectrum 48K
5. Laserlight	Sierra Int.	Spectrum 48K
6. Tronquest	Sierra Int.	C64 64K/128K
7. Spacequest	Sierra Int.	C64 64K/128K
8. Pico	Amstrad	660 64K
9. Jet Set Willy	Sierra Int.	Sierra Int.
10. Star of Berger	Sierra Int.	C64 64K/128K
11. TomTom	Sierra Int.	Spectrum 48K
12. Laserquest	Sierra Int.	Spectrum 48K

NON-ARCADE

1. Valentine	Sierra Int.	C64 64K/128K
2. Major	Sierra Int.	Spectrum 48K
3. War of the Worlds	C64	C64 64K/128K
4. The Haunting	Sierra Int.	C64 64K/128K
5. Roll of Honour	Amstrad	Spectrum 48K
6. The Intercept	Sierra Int.	Spectrum 48K
7. Space Adventure	Amstrad	Spectrum 48K
8. Avatar	Amstrad	Spectrum 48K
9. Masters of the Universe	Commodore	C64 64K/128K
10. Clash of the Clans	Sierra Int.	C64 64K/128K

Compiled with the assistance of Britain's leading software distributors, including: Pinnacle, SSI, PCE, Websters, PCS and Software Centre.

SPECTRUM

1. Match Point	Sinclair
2. Major	Sierra Int.
3. Hyperion	Sierra Int.
4. Spacequest Express	Sierra Int.
5. Star Trek	Sierra Int.
6. Laserquest	Sierra Int.
7. Laserbeam	Sierra Int.
8. Space Quest	Sierra Int.
9. Pico	Amstrad
10. Clash of the Clans	Sierra Int.

COMMODORE 64

1. Valentine	Sierra Int.	Amstrad 64K/128K
2. Major	Sierra Int.	Amstrad 64K/128K
3. War of the Worlds	C64	C64 64K/128K
4. The Haunting	Sierra Int.	C64 64K/128K
5. Roll of Honour	Amstrad	Spectrum 48K
6. The Intercept	Sierra Int.	Spectrum 48K
7. Space Adventure	Amstrad	Spectrum 48K
8. Avatar	Amstrad	Spectrum 48K
9. Masters of the Universe	Commodore	C64 64K/128K
10. Clash of the Clans	Sierra Int.	C64 64K/128K

DRAGON 32

1. Clash of the Clans	Sierra Int.	Amstrad 64K/128K
2. Masters of the Universe	Commodore	C64 64K/128K
3. Avatar	Amstrad	Spectrum 48K
4. The Intercept	Sierra Int.	Spectrum 48K
5. Masters of the Universe	Sierra Int.	Amstrad 64K/128K
6. Valentine	Sierra Int.	Amstrad 64K/128K
7. War of the Worlds	C64	C64 64K/128K
8. Clash of the Clans	Sierra Int.	Amstrad 64K/128K
9. Avatar	Sierra Int.	Amstrad 64K/128K
10. Masters of the Universe	Sierra Int.	Amstrad 64K/128K

Compiled by W. H. Smith and Websters. Figures in brackets are last week's positions.

VIC-20

1. Star Trek	Sierra Int.
2. Laserbeam	Sierra Int.
3. Laserquest	Sierra Int.
4. Laserbeam	Sierra Int.
5. Laserbeam	Sierra Int.
6. Laserbeam	Sierra Int.
7. Laserbeam	Sierra Int.
8. Laserbeam	Sierra Int.
9. Laserbeam	Sierra Int.
10. Laserbeam	Sierra Int.

BBC

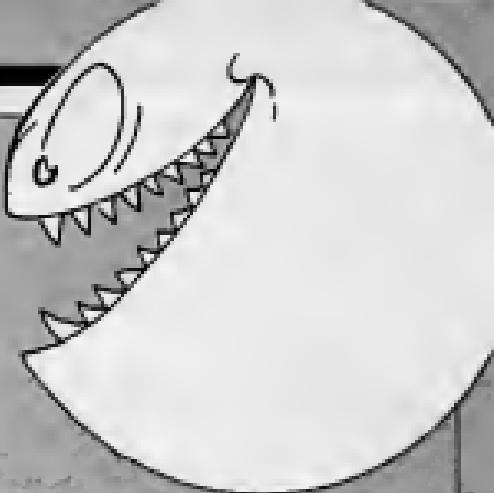
1. Laserbeam	Sierra Int.
2. Laserbeam	Sierra Int.
3. Laserbeam	Sierra Int.
4. Laserbeam	Sierra Int.
5. Laserbeam	Sierra Int.
6. Laserbeam	Sierra Int.
7. Laserbeam	Sierra Int.
8. Laserbeam	Sierra Int.
9. Laserbeam	Sierra Int.
10. Laserbeam	Sierra Int.

ZX81

1. Laserbeam	Sierra Int.
2. Laserbeam	Sierra Int.
3. Laserbeam	Sierra Int.
4. Laserbeam	Sierra Int.
5. Laserbeam	Sierra Int.
6. Laserbeam	Sierra Int.
7. Laserbeam	Sierra Int.
8. Laserbeam	Sierra Int.
9. Laserbeam	Sierra Int.
10. Laserbeam	Sierra Int.

PROGRAM

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1. *Leucosia* *leucostoma* (Fabricius) (Fig. 1)

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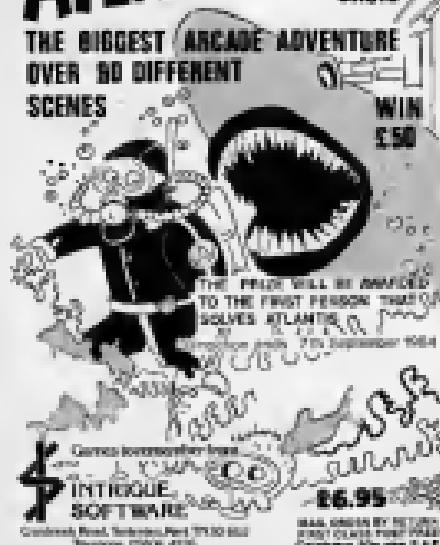
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COMPETITION

Prizes to a value of over £1,000 are offered by Mushroom Software in this month's competition.

100 free copies of *Reindeer Hunt* for the Commodore 64, together with *Dune Buggy* and *Super Scramble*, are up for grabs.

Not from Mushroom, you have just come a holiday in the African deserts and you are returning through the Customs barrier. Unfortunately, you are carrying a few pieces of contraband goods — and as you reach the barrier customs begin to suspect that you 'fix' and have a 'smuggler'.

Customs officials do not take kindly to your attempted escape, and launch an attack on you with teargas and firearms. You have the choice of either fleeing to the off-shore island, or fighting the baddies.

Commodore 64 discs are particularly good, with the system's own timer to give a realistic effect.

In *Super Scramble*, you are the pilot of a rocky vehicle, and your mission is to destroy both the vehicles belonging to the baddies, and the fuel tanks on the ground. By bombing these, you will take the baddies' fuel tanks and you're good to go, with the final part being to bomb a power station.

Other titles, special care has been taken with the graphics — a feature that Mushroom Soft was renowned to live well in the past. In previous years, we have had two games, the Reindeer *HUNT*, and this makes this year one of the 30th anniversary package worth a total of £11.25. There are also 27 versions up-grades of each of the two games.

You could be one of the prize-

Win three great programs from Mushroom

Here is your chance to win more than £50-worth of software for your Commodore 64, including

Dune Buggy and Super Scramble

Simply by just finding as many differences as possible in the two images.

How to enter

Study the two pictures — there are a number of differences between them. Circle the differences between image B and the correct, and complete the entry card. Write clearly the number of differences you found on the back of the envelope.

Post your entry to Mushroom Software Competition, Home Computing Weekly, No. 1, Collier Street, London W1B 5BL. Entries close at 11pm on Friday August 26, 1988.

You may enter as many times as you wish, but each entry should be on a separate sheet of foolscap — that is to say — and sealed in a separate envelope.

Important, please follow carefully the guidelines on sealing — incomplete coupons and entries in envelopes with no numbers on the back cannot be considered. If you are a woman, the coupon will be used as a label around your wrist or above writing is essential.

The rules

Entries will not be accepted from employees of Acorn Computer, Mushroom Software and Home Computing Weekly at 1 Collier Street, London W1B 5BL. The publisher also reserves the right to banish and expel any employee, family and friends of the company.

The Home Computing Weekly reserves the right to alter the rules.

Mushroom Software Competition

Entry Coupon

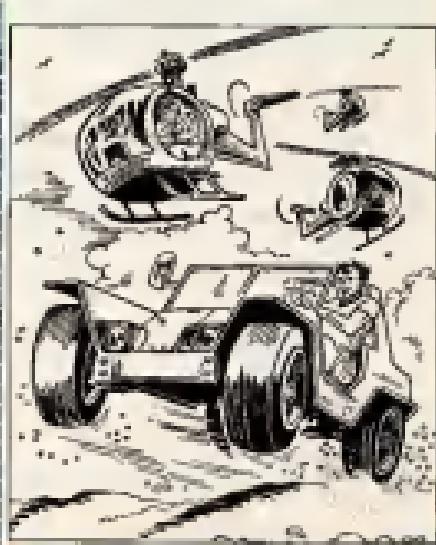
Name _____

Address _____

Post code _____

Number of differences found _____

Post your entry to Mushroom Software Competition, Home Computing Weekly, No. 1, Collier Street, London W1B 5BL. Entries close at 11pm on Friday August 26, 1988.



F a kind

- Remember that in Spectrum programs, capital letters in PRINT statements should be added in GRAPHICS mode, unless they form words.

Using the Word

PROBLEMS

СВОБОДА

```
9449 STOP
95200 PORT 4-USB "a" TO USB 780770 READ as PAGE 4,000 NEXT 4
95110 DATA 0,0,0,0 00010000,000 00010000,000 00010000,000 00010000,000
11111100,010 11111000,010 00110000,010 00011000,010 00011000,010 00011000,010
10000110,010 00000000,010 10000000,010
95200 DATA 0,0,0,0 00110000,000 00111000,000 00111000,000 00111000,000 00111000,000
00111000,000
95300 DATA 0,0,0,0 11000000,000 11000000,000 11000000,000 11000000,000 11000000,000
11000000,000
95400 DATA 16,32,64,128,256,512,1024,2048,4096,8192,16384,32768,65536,131072,262144,524288,1048576,2097152,4194304,8388608,16777216,33554432,67108864,134217728,268435456,536870912,1073741840,2147483680,4294967360,8589934720,17179869440,34359738880,68719477760,137438955200,274877810400,549755620800,1099511216000,2199022432000,4398044864000,8796089728000,17592179456000,35184358912000,70368717824000,140737435648000,281474871296000,562949742592000,1125899485184000,2251798970368000,4503597940736000,9007195881472000,18014391762944000,36028783525888000,72057567051776000,144115134103520000,288230268207040000,576460536414080000,1152921072828160000,2305842145656320000,4611684291312640000,9223368582625280000,18446737165251520000,36893474330503040000,73786948661006080000,147573897322012160000,295147794644024320000,590295589288048640000,118059117617609720000,236118235235319440000,472236470470638880000,944472940941277760000,1888945881882555520000,3777891763765111040000,7555783527530222080000,15111567055060444160000,30223134110120888320000,60446268220241776640000,120892536440483553280000,241785072880967106560000,483570145761934213120000,967140291523868426240000,1934280583047736852480000,3868561166095473704960000,7737122332190947409920000,15474244664381894819840000,30948489328763789639680000,6189697865752757927840000,1237939573150551585680000,2475879146301103171360000,4951758292602206342720000,9903516585204412685440000,19807033170408825370880000,39614066340817650741760000,79228132681635301483520000,158456265363270602967040000,316912530726541205934080000,633825061453082411868160000,1267650122906164823736320000,2535300245812329647472640000,5070600491624659294945280000,1014120098324931858989160000,2028240196649863717978320000,4056480393299727435956640000,8112960786599454871913280000,16225921573198909743826560000,32451843146397819487653120000,64903686292795638975306240000,129807372585591277950612480000,259614745171182555901224960000,519229490342365111802449920000,1038458980684730223604899840000,2076917961369460447209799680000,4153835922738920894419599360000,8307671845477841788839198720000,16615343690955683577678397440000,33230687381911367155356794880000,66461374763822734310713589760000,132922749527645468621427779520000,265845498555290937242855559040000,531690997110581874485711118080000,106338198220116374897142236160000,212676396440232749794284472320000,425352792880465499588568944640000,850705585760930999177137889280000,1701411175361861983554275778560000,3402822350723723967108551557120000,6805644701447447934217103114240000,13611289402894895868434206228480000,27222578805789791736868412456960000,54445157611579583473736824913920000,108890315223591766947473649827840000,217780630447183533894947299655680000,435561260894367067789894599311360000,87112252178873413557978919862640000,174224504357746827115957839725280000,348449008715493654231915679450560000,696898017430987308463831358901120000,1393796034861974616927662717802240000,2787592069723949233855325435604480000,5575184139447898467710650871208960000,11150368278895796935421301742417840000,22300736557791593870842603484835680000,44601473115583187741685206969671360000,89202946231166375483370413939342720000,178405892462332750966740827878685440000,356811784924665501933481655757370880000,713623569849331003866963211514741760000,1427247139698620007733926423029435360000,2854494279397240015467852846058870720000,5708988558794480030935705692117741440000,11417977117588960061871411384235482880000,22835954235177920123742822768470965760000,45671908470355840247485645536941931520000,91343816940711680494971291073883863040000,182687633881423200989944582147767726080000,365375267762846401979889164295535452160000,730750535525692803959778328591070904320000,1461501071051385607919556657182141808640000,2923002142102771215839113314364283617280000,5846004284205542431678226628728567234560000,116920085684110848633564532574571446880000,233840171368221697267129065149142891360000,467680342736443394534258130298285782720000,935360685472886789068516260596571565440000,1870721370945773578137032521193143130880000,3741442741891547156274065042386286261760000,7482885483783094312548130084772572523520000,14965770967566188625096260169545145047040000,29931541935132377250192520339090290094080000,59863083870264754500385040678180580188160000,119726167740529509007700801356360360376320000,239452335481059018015401602712720720752640000,478904670962118036030803205425441441505280000,957809341924236072061606410850882882510560000,1915618683848472144123212821701765765021120000,383123736769694428824642564340353153042240000,766247473539388857649285128680706306084480000,1532494947078777715298570257361412612168960000,3064989894157555430597140514722825244337920000,6129979788315110861194280289445650488675840000,12259959576630221722385605788891300977411680000,24519919153260443444771211577782601954823360000,49039838306520886889542423155565203909646720000,98079676613041773779084846311130407819293440000,19615935322608354758816969262260815639858680000,39231870645216709517633938524521631279717360000,78463741290433419035267877049043262559434720000,15692748258086683807053575409808652511886960000,31385496516173367614107150819617305023773920000,62770993032346735228214301639234610047547840000,125541986064693470456428603278469220094995680000,251083972129386940912857206556938440189991360000,502167944258773881825714413113877880379982720000,1004335888517547763651428826227555760759965440000,2008671777035095527302857652455111531519810880000,4017343554070191054605715304910223063039621760000,8034687108140382109211430609820446126079235360000,1606937421628076421842286121964089225215850720000,3213874843256152843684572243928178450431701440000,6427749686512305687369144487856357800863402880000,1285549937302461137473828897571271560172605760000,2571099874604922274947657795143543120345211520000,5142199749209844549895315590287066240687423040000,1028439949841968909979063118057413241374846080000,2056879899683937819958126236114826482748192160000,4113759799367875639916252472229652965483840320000,8227519598735751279832504944459315930967680640000,16455039197471502559665009888918631861953361280000,32910078394943005119330019777837263723867322560000,65820156789886010238660039555674527467734645120000,131640313579772020477320079111349054935469290240000,263280627159544040954640158222690109870938580480000,526561254319088081909280316445380219741877160960000,1053122508638176163818560632890760439483743321920000,2106245017276352327637121265781520878967486643840000,4212490034552704655274242531563041778934973287680000,8424980069105409310548485063126083557869946575360000,1684996013821081862059690012625216711573989355120000,3369992027642163724119380025250433423147978710240000,6739984055284327448238760050500866846295957420480000,13479968110568654896475320101001733692498554840960000,26959936221137309792950640202003467384997109681920000,53819872442274619585901280404006934769994219363840000,107639744884549238971802560808013869539988438727680000,21527948976909847794360512161602773907997687745360000,43055897953819695588721024323205547815995375490720000,86111795907639391177442048646411095631990750981440000,172223591815278782354840977292822191263891501962880000,344447183630557564709681954585644382527783023925760000,688894367261115129419363909171288765055566047851520000,1377788734522230258838727818342575320111330955703040000,2755577469044460517677455636685150640222661911406080000,5511154938088921035354911273370301280445323822812160000,11022348876177842070709822546740603560886465655624320000,22044697752355684141419645093481207112172931311248640000,44089395504711368282839290186962414322458662622497280000,88178791009422736565678580373924828644917325244944560000,17635758201884547313135776074784965728983465489889120000,35271516403769094626271552149569931457867330979782240000,70543032807538189252543104299139862915734661959564480000,14108606561507637850506520859827972583148332391912960000,28217213123015275701013041719655945166296666783825920000,56434426246030551402026083439311890332593335567651840000,11286885249206110280405366687862380666586671113531680000,22573770498412220560810733375724761333173342227063360000,45147540996824441121621466751449522666346684454126720000,90295081993648882243242933502898545332693378908253440000,180590163987297764486485867005797090665387557816566880000,361180327974595528972977734011594181330775115633133760000,722360655949191057945955468023188362661550231266267520000,1444721311898382115891910936046377725323100462532535040000,2889442623796764231783821872092755449646200925065070080000,5778885247593528463567643744185510892892401850130140160000,1155777049518705692713526748837020785778480360260220320000,2311554099037411385427053497674041575569606720520440640000,4623108198074822770854106995348083115139213441040881280000,9246216396149645541708213990696166230278426882081762560000,18492432792299291083416427981392323461568457644163525120000,36984865584598582166832855962784646823136813368326752240000,7396973116919716433366571192556929364627362673665350480000,14793946233839432866733542385113858729254725347330700960000,29587892467678865733467084770227717458514450644661401920000,5917578493535773146693416954045543491702880128922803880000,11835156987071546293386833908091066983405760257845607760000,23670313974143092586773667816182133966115320515681215520000,47340627948286185173547335632364267932230641031362431040000,9468125589657237034709467126472853586446128206272486080000,18936251179314474069418934252945707172892564115449720160000,3787250235862894813883786850589141434578512822389940240000,7574500471725789627767573701178282869157036444779880480000,15149009423451579255535147402356565638910732895599760960000,30298018846903158511070294804713131347821465781199521920000,60596036693806317022140589609426266675642931562399043840000,121192073387612634044281783218852533334145863124798087680000,242384146775225268088563566437731266667859126249596175360000,484768293550450536177127132875465133335898252498192350720000,969536587100901072354254265750930266671785754996384701440000,1939073172201802144708504535501860533343775109937769402880000,3878146344403604289417009071003721066687550219875538805760000,7756292688807208578834008142007442133375100439751077611520000,15512585377614417157668016284014884266752008779522155223040000,31025170755228834315336032568029768533504017558544310446080000,62050341510457668630672065136059537067008035117088620892160000,124100683020915337261344130272119074134016070234177217842320000,248201366041830674522688260544238148260320140468354435684640000,496402732083661349045376521088476296520640280936708871369280000,992805464167322698090753042176952593041280561873417742738560000,1985610928334645396181506084353905186082561237446835485477120000,397122185666929079236301216870781037216512627493667090954240000,794244371333858158472602433741562074432025254987334181908480000,1588488742667716316945204867423124148860505099764668363816960000,3176977485335432633890409734846242297201010199529336727633920000,6353954970670865267780819469692484594402020398586673455267840000,12707909941341730535561638939384969188804040797733346910535680000,25415819882683461071123277878769383776080801594666793821071360000,50831639765366922142246555757538777552161603188933587642142720000,101663279531413844284493111515175551504323206377867175284285440000,203326559062827688568986223030351103008646127555734285568570880000,406653118125655377137772446060702206017282451114868571137417760000,813306236251310754275544892121404412034564822229737142274835520000,1626612592502621508550889784242088824068896444584744284549671040000,3253225185005243017101779568484177648137772889169488569099342080000,6506450370010486034203559136968355296275545778338977138198684160000,13012900740020972068407182738776711592551151556757954276397368320000,26025801480041944136814365477553423185103031113515905553194736640000,520516029600838882736287309551068466302060622670318111063894
```

Letting the Data

```

2 BORDER B; PAPER B; INK 7; CLR : PRINT AT 10,0; PAPER B; PAPER A; INK B; PLA
300 1;"Please wait"; GO SUB 3000
3 CLR : INK A; BORDER B; PAPER B
4 PRINT "           *****", FRONT " By S.Ford & D.LAURENT
5 PRINT "Because you like instructions(y/n)?"; INPUT 1$.
7 IF 1$="y" OR 1$="Y" THEN GO SUB 3000
8 FOR q=0 TO 300: BEEP .0005,PAUSE: PRINT AT 0,q; INK 4q" 0 "1 BEEP .0005,PAUSE
9
10 FRONT AT 11,q; INK 2q INK 2q" 0 "1 NEXT q; PRINT AT 0,q;" 0 "1 PRINT AT 11,q
11
12
13 FOR q=0 TO 300: BEEP .0005,PAUSE: PRINT AT 0,q; INK 4q" 0 "1 BEEP .0005,PAUSE
14
15 PRINT AT 11,0; INK 2; INK 2q" 0 "1 NEXT q; PAUSE 30
16 REM ***WRITABLE***  

17 LET adadr=1
18 LET hex=0
19 LET hex2=0
20 LET posadr=100 LET posadr=200
21 LET adr=INT (RND*300)+1
22 LET adr=8
23 LET adr=INT (RND*300)+1
24 LET adr=5
25 LET adr=3 LET adr=INT (RND*291)+1
260 LET adr=10
270 REM ***SET UP SCREEN***  

280 BORDER B; PAPER B; INK 7; CLR
290 FOR t=1 TO 50
300 LET x=RND*240
310 LET y=RND*170
320 PLOT x,y
330 NEXT t
340 PRINT 88; PAPER B; INK 8;"          CELLS
350 REM ***HOME***  

360 IF INKEY$="x" OR INKEY$="X" THEN PAUSE 2
370 PRINT AT 1,13;"Press "p"hot" IF Rate=15 THEN PRINT AT 10,10;"Race over"; FD
380 FOR t=10 TO 15: NEXT t; GO TO 1000
390 PRINT AT 1,28;"The-Score"; t$;
395 PRINT AT 1,31;"Score"; t$;
400 PRINT AT 0,0;" "
410 IF posadr>100 AND INKEY$="1" THEN LET posadr=posadr-2
420 IF posadr<27 AND INKEY$="2" THEN LET posadr=posadr+2
430 IF posadr=20 THEN LET t$=" "
440 BEEP .0005,10 PRINT AT posadr,t$; INK 5q" 0 "1
450 PRINT AT adr,adr;" "
460 LET adr=adr+1

```


PROGRAM

```
9819 DATA 1,1,25,35,127,195,255,127
9820 DATA 125,125,175,175,254,195,
255,125
9821 DATA 0,0,1,1,2,127,7,8
9822 DATA 0,0,125,125,195,254,254,9
9823 DATA 0,0,125,125,255,127,
255,125,48
9824 DATA 125,125,255,255,255,127,
127,125
9825 RETURN
```

SCORE 0 SHIPS 0 HI-SCORE 0

BONUS 0 LIVES 1
SCORE 0000
CORRIDOR 1

Screen dump for Sector

SCORE 125 HITS 14 HI-SCORE 0



Screen dump for Block

Screen dump for Cell

Cheetah

Marketing



Cheetah Marketing Ltd
24 The Avenue
London NW1 3JU
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Telex 889548SM

PROGRESS

Look what the humans
used to use for a joystick
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Mr Big CBM 64 £9.95

Monmouth, 10 Tredegar Road, Abergavenny, Gwent, NP13 2PU.

This is a version of Mr Do for the Commodore 64.

The game is an old Do Mania game that never reached the market which you do. You do, however, have a task of recovering the gold on these islands. All the gold you will find you will take with you.

After a while the Maniacs appear and have one Maniac who always has two swords. If you are the last in the game of the Maniacs, then the Maniacs return and become the Maniacs. Maniacs will give you a free life.

Star Trooper CBM 64 £5.95

Whitstable, Happy Days, 74, The Strand, Whitstable, Kent, CT12 1LU.

Star Trooper is the updated version of the ever popular Space Invaders/Robotron game. The object of the game is to shoot the alien invaders which move from side to side and down the screen.

You control a small unit with a joystick on the basic movement is very simple — your joystick will move your unit while held in a certain direction. It would have been nice if a mouse had been included. I think the only thing you could do is fire faster which reduces a missile on the screen when you are firing.

The graphics are not very good, looking offish on the background and texture quite good looking, your players are better than the ones in the early versions.

There is quite an interesting option playing mode. The option is setting the level to play the game. However, the screen and theme they are working against.

Endured with the exception of a last which you pass 100, in seconds and away to the Maniacs. However, you can keep you interested of any new software.

Instructions
playability
graphics
value for money

★★

To prevent a screen scroll, hold a joystick after power passes in between scrolling and very addictive.

Sound and graphics are both very good. There is plenty of clear instructions between the end and scroll option.

Looking at this box — a very 1980s colour theme. Inside the box is the manual. It has a lot of leading space and I think it's more reliable than the past by more other companies to be true to the fact that you have problems.

Instructions
playability
graphics
value for money

★★★★★

Cassette 50 CBM 64 £9.95

Canada Games, Suite 4, 13
Haven Close, Hemington, N.D.
EX14

This is one of those programs types which of the 20 games on the cassette, when written in BASIC. They're fairly short and simple. A wide variety of subjects are included so not all subjects.

The quality isn't very good. I found the program slow and boring and not very user friendly. On one program, the instructions give you the ending line to use and I had to use the program to find out what to type. Another game will introduce you to Mark and when TV because the colour and were very similar.

Instructions
playability
graphics
value for money

Instructions
playability
graphics
value for money

Great instructions are included with the cassette. All directions are given on a screen with each part.

Graphics and sounds would be very impressive if they were produced in a standard 16 2000. I think the C64 does it very well.

No leading problems were encountered — in fact they're not something right.

Instructions
playability
graphics
value for money

★★

Games, games and more games

Here's a selection of games for Commodore, Spectrum and TI-99/4A. Read what our reviewers think before you buy

The Wall TI-99/4A £6

Stretford, 20 Almon Road,
Stockport, Cheshire.

A jacket was to be on the back of this game which was not the case. The game is very well programmed and has a good sound. It has a choice of difficulty, advanced, normal, basic, beginner, dragon, which is the easiest and most advanced, and a mission to free.

Before attempting to beat the mission you need to study their moves and fully understand the problem, and the way in which they travel, are different. A difficult level is the best for you, 100 points doesn't a bonus life. The game ends when all lives

are lost and the game ends. If you do not like this game, then the graphics are not the best of things.

Control is from keyboard or joystick. You are unable to save and the game has a 1000-word limit. If you cannot save the game, you can't.

It's not very clear how many advanced, normal, basic, etc. are in the game. You are not given a choice of mission and there are none.

There is a difficulty though which is to have you flooded on trying to beat the mission.

Instructions
playability
graphics
value for money

★★★★★

New Venture 48K Spectrum £5.95

Elmwood Computer, 10 Elmwood Road, Darwen, Lancs.

If I were a software editor, this is the kind of program that I would like to see more of. New Venture comes with full colour instructions. You have 127 000 words and the game is to be able to follow the instructions. However, the problem is programming.

There are no real business, home and social options — however, reading, advent, word search, crossword, check book and word, check for update and make cassette options are just four 256 program can use the TI-99. The program contains a really ordinary game — in fact a £10 000 shop network costs £80 000.

At the game presents you are offered various options, the importance of which goes past. Section headings, how to calculate values, there are no options, and so on. You can't do anything with them and you can't do a game.

At the end of each round when a round is finished, there is a page of reading, word, advent, crossword, etc. and there are none.

It's not very clear how many advanced, normal, basic, etc. are in the game. You are not given a choice of mission and there are none.

There is a difficulty though which is to have you flooded on trying to beat the mission.

Instructions
playability
graphics
value for money

★★★★★

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